.. ATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applic C091		r agent's file reference	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 as, where applicable, item 5 below.					
International application No.			International filing date (day/mon	th/year)	(Earliest) Priority Date (day/month/year)					
PCT	/AU2	009/001144	3 September 2009		12 September 2008					
Applic	ant									
	RESMED LTD et al									
Article	18. A	copy is being transmitted to the	International Bureau,	Authority and	is transmitted to the applicant according to					
This it	nternati	onal search report consists of a t			-					
	Ш	It is also accompanied by a copy	y of each prior art document cited is	this report.						
1.	Basis	of the report								
a.	With		national search was carried out on							
		X The international appl	ication in the language in which it v	vas filed.						
		translation furnished f	ernational application into or the purposes of international sea	ch (Rules 12.3)	which is the language of a a) and 23.1(b)).					
b.		This international search report notified to this Authority under	has been established taking into ac-	ount the rectifi	ication of an obvious mistake authorized by or					
c.		With regard to any nucleotide a	md/or amino acid sequence disclo	sed in the intern	ational application, see Box No. I.					
2.		Certain claims were found unsearchable (See Box No. II).								
3.	X	Unity of invention is lacking (See Box No. III).							
4.	With	regard to the title,								
	х	the text is approved as submitte	d by the applicant.							
	Ħ	the text has been established by	this Authority to read as follows:							
5.	With	regard to the abstract,								
	X the text is approved as submitted by the applicant.									
		the text has been established, as month from the date of mailing	cording to Rule 38.2, by this Author of this international search report,	ority as it appear submit commen	rs in Box No. IV. The applicant may, within one is to this Authority.					
6.	Willela	second to the dyoudness	•							
u.	With regard to the drawings,									
a.	the figure of the drawings to be published with the abstract is Figure No. 1									
	X as suggested by the applicant.									
		Lucas d	thority, because the applicant failed							
		as selected by this Au	thority, because this figure better ch	aracterizes the i	nvention.					
b.		none of the figures is to be publ	lished with the abstract.							

International application No. PCT/AU2009/001144

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This intern	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
	•
2.	Claims Nos.:
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	· · · · · · · · · · · · · · · · · · ·
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. D	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Intern	ational Searching Authority found multiple inventions in this international application, as follows:
(Diago	see supplemental box I)
(Pieasi	see supplemental box 1)
ı. 🗆	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
	(0)
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention covered by claims Nos.; 5 – 13
Remark o	The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
	The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
	No protest accompanied the payment of additional search fees.

International application No.

					PCT/AU20	009/001144
Λ,	CLASSIFICATION OF SUBJECT MAT	TTER				
Int. (CI.					
A61M 16/06 (A62B 7/00 (2						
According to	International Patent Classification (IPC)	or to both	national classification	on an	d IPC	
В.	FIELDS SEARCHED					
Minimum docu	mentation searched (classification system foll	lowed by	classification symbols)		-	
Documentation	searched other than minimum documentation	to the ex	tent that such documen	ts are	included in the fields so	arched
EPODOC, W	base consulted during the international search PI: IPC, ECLA A61M 16/-, A62B 7/-, 9/ acc, taper, triangle, cross – section) and I	- and 18/	- & keywords (Mask,	pati	cable, search terms used out interface, foam, cu) ishion, seal,
	NTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication,	where ap	propriate, of the rele	vant	oassages'	Relevant to claim No.
х	US 2006/0237018 A1 (McAULEY Abstract; FIGURE 4	ct al.) 2	26 October 2006		-&:	5 – 9 and 13
Α	WO 2007/068044 A1 (RESMED I See ontire document	TD) 21	June 2007			
A	US 2001/0020474 A1 (HECKER e See entire document	t al.) 13	September 2001			
. А	GB 2376896 A (CHANG) 31 Dece See entire document	mber 20	002			
F	Further documents are listed in the co-	ntinuatio	on of Box C	х	See patent family a	nnex
"A" docume	entegories of cited documents: nt defining the general state of the art which is sidered to be of particular relevance		conflict with the applicati underlying the invention	on but	he international filing date oited to understand the pri	noiple or theory
"B" carlier a internat	pplication or patent but published on or after the ional filing date		or cannot be considered t	evano o invo	e; the claimed invention ca lve an inventive step when	anot be considered novel the document is taken
"L" document which may throw doubts on priority claim(s) or which is circle to catalish the publication date of another claim(n or other special reason (as special read) as special read on a special read on the special read of the special read on				he document is combined	with one or more other	
"O" docume or other	at referring to an oral disclosure, use, exhibition means		document member of the			
"P" docume but later	nt published prior to the international filing date r than the priority date claimed					
	ual completion of the international search		Date of mailing of	the ir	ternational search repor	1 8 DEC 2009
15 December	2009 ling address of the ISA/AU		Authorized officer	-		, 0
	N PATENT OFFICE		VIJAY SINGH			
PO BOX 200,	WODEN ACT 2606, AUSTRALIA		AUSTRALIAN PA			
E-mail address	; pct@ipaustralia.gov.au +61 2 6283 7999		(ISO 9001 Quality			
racsimile No.	TU1 & UA03 1999		Telephone No: +	6126	283 2665	

International application No.

Supplemental Box I

(To be used when the space in any of Boxes I to IV is not sufficient)

Continuation of Box No. III

This International Searching Authority has found that there are fifteen different inventions as follows:

- Claims I 4 are directed to a facial mask. It is considered that a frame, a substructure and a cushion, the
 cushion is fanned at least in part from foam, the substructure is formed from a material that is more rigid than
 the foam portion of the cushion, the surface is constructed and arranged to lie at a first angle in a first region of
 the cushion and to lie at a second angle in a second region of the cushion wherein the first and second angles
 are different comprises a first distinguishing feature.
- Claims 5 13 are directed towards a facial mask. It is considered that a foam eushion that forms a face
 contacting portion to effect a seal, a cross-section of the cushion tapers from a wider cross-section to a
 narrower cross-section closer to the face and the tapered portion defines an inside surface adjacent an interior
 of the cushion and an outside surface comprises a second distinguishing feature.
- Claims 14, 16, 17, 21 and 23 26 are directed towards a cushioning component. It is considered that inner side
 defined by the side facing the centre of the mask, an outer side defined by a side facing away from the centre
 of the mask; and a base side facing the frame or elip portion; wherein the length of outer side is greater than
 the inner side comprises a third distinguishing feature.
- Claims 15, 18 20 are directed towards an interfacing structure. It is considered that a clip portion joined to a
 cushioning component, wherein an upper surface of the clip portion is joined to a base surface of the
 cushioning component; and wherein at least a portion of the upper surface is angled to provide a moment force
 on cushioning component, when force is applied into the cushioning component comprises a fourth
 distinguishing feature.
- Claim 22 is directed towards a nasal mask. It is considered that a frame removably connected to an interfacing structure, wherein the interfacing structure includes a cushioning component constructed of foam material, and wherein the height of the interfacing structure is reduced in relation to region that is adapted to contact the upper lip region of a patient's face comprises a fifth distinguishing feature.
- Claims 27 -- 31 are directed towards a foam cushion. It is considered that at least a portion of the foam cushion
 is adapted to rotate towards/away from the centre of the mask when pressure is applied into the cushion by the
 patient's face and wherein at least a portion of the outer side wall of said cushion is adapted to form a seal
 against the face of a patient comprises a sixth distinguishing feature.
- Claims 32 and 33 are directed towards a foam cushion. It is considered that at least one cross section of the
 cushion includes at least outer and inner side wall, wherein the outer side wall is longer than the inner side
 wall comprises a seventh distinguishing feature.
- Claims 34 and 35 are directed towards a foam cushion. It is considered that a first surface for contacting
 patient's face and a second surface opposed to the first surface, wherein the second surface is joined to a clip
 portion and wherein the length of the cross section of second surface is greater than the length of the cross
 section of the clip portion comprises an eighth distinguishing feature.
- Claim 36 is directed towards a flexible cushion. It is considered that a foam patient interface joined to a
 compressed foam clip portion comprises a ninth distinguishing feature.
- Claim 37 is directed towards a foam cushion. It is considered that one weakened region positioned on either side of the patient's nasal bridge to prevent pinching or buckling of foam comprises a tenth distinguishing feature.
- Claims 38 and 39 are directed towards a foam cushion. It is considered that the first layer is less dense than second layer comprises an eleventh distinguishing feature.

[Continued in Supplemental Box II]

International application No.
PCT/AU2009/001144

Supplemental Box II

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: Supplemental Box I

- Claim 40 is directed towards a foam cushion. It is considered that first layer is softer than second layer
 comprises a twelfth distinguishing feature.
- Claims 41 45 are directed towards a cushioning component. It is considered that a patient contacting surface; that is adapted to contact a patient, in use, has a rounded cross sectional profile and a base surface opposed to the patient contacting surface comprises a thirteenth distinguishing feature.
- Claims 46 51 are directed towards a mask comprising a removable interfacing structure. It is considered that
 a patient contacting surface that is adapted to contact a patient, in use, has a rounded cross sectional profile
 and a base surface opposed to the patient contacting surface is joined to a clip portion, and wherein the clip
 portion is adapted to be removably joined to a frame of said mask comprises fourteenth distinguishing feature.
- Claims 52 and 53 are directed towards a mask. It is considered that a frame and an interfacing structure,
 wherein the interfacing structure comprises a clip portion joined to cushioning component, and wherein the
 frame is more rigid than the clip portion and the clip portion is more rigid than the cushioning portion
 comprises a fifteenth distinguishing feature.

99.9

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report							
US	2006237018	AT	500484	AU	15432/02	ΑÜ	51876/01
		AU	51877/01	AU	67947/01	AU	2004268479
		BR	0212453	CA	2350351	CA	2350356
		CA	2370995	CA.	2407118	CA	2413938
		CA	.2457277	CN	1553820	EP	1163923
		EP	1163924	EP	1289590	. EP	1302212
		EP	1306098	EP	1425060	EP	1663366
		EP	1905475	ES	2319832	JP	2002028240
		JP	2002095751	NZ	508219 -	NZ	514972
		US	6615834	US	6662803	US	6701926
		US	6789541	US	6832610	US	6951218
		US	7017576	US	2002005201	US	2002014241
		US	2003000533	US	2003062048	US	2003066531
		US	2003089373	US	2003111080	US	2003154978
•		ŲS	2003196659	US	2003217746	US	2004035428
		US	2004065327	US	2004244800	US	2004244804
		US	2004255950	US	2007062536	US	2008047557
	•	US	2009223520	. WO	0195965	WO	03022341
		WO	03030978	wo	2005021075		
WO	2007068044	NONE			,		
US	2001020474	DE	10002571	DE	20001040U	EP.	1118346
GB	2376896	NONE					٠.

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX